

Docket No. UCIP380
US App. No. 10/643,112

IN THE CLAIMS:

1. (currently amended) A liquid heating device comprising a heater, said heater having an inlet for liquid to flow in therethrough and an outlet for boiled or heated liquid or vapor to flow out therethrough, said heater having an insulating tube made of quartz and a separate electric heating membrane covering an outer surface of the insulating tube, a its front end and a rear end of said heating membrane being respectively clamped by a tube clamp, said tube clamps respectively connected with a conductive wire, said heater quickly generating high temperature by flowing electricity in said electric heating membrane between its front end and its rear end when said conductive wires are electrified by a control circuit, said heater making the liquid inside heated or boiled or vaporized quickly.

2. (original) The liquid heating device as claimed in Claim 1, wherein said heater has its outlet end provided with a temperature detector for detecting the temperature of said heater, so that said control circuit can control said heater with great accuracy.

3. (canceled)